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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/614,050	07/08/2003	Kang Soo Seo	1740-000010/US	7555
30593 7590 10/14/2009 HARNESS, DICKEY & PIERCE, P.L.C. P.O. BOX 8910			EXAMINER	
			ZHAO, DAQUAN	
RESTON, VA 20195			ART UNIT	PAPER NUMBER
			2621	
			MAIL DATE	DELIVERY MODE
			10/14/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	10/614,050	SEO ET AL.
Office Action Summary	Examiner	Art Unit
	DAQUAN ZHAO	2621
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet with the	correspondence address
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the mai earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 1.136(a). In no event, however, may a reply be not will apply and will expire SIX (6) MONTHS froute, cause the application to become ABANDON	N. imely filed in the mailing date of this communication. ED (35 U.S.C. § 133).
Status		
1) ☐ Responsive to communication(s) filed on <u>02</u> 2a) ☐ This action is FINAL . 2b) ☐ The 3) ☐ Since this application is in condition for allow closed in accordance with the practice under	nis action is non-final. vance except for formal matters, p	
Disposition of Claims		
4) Claim(s) 8-14 is/are pending in the application 4a) Of the above claim(s) is/are withdred 5) Claim(s) is/are allowed. 6) Claim(s) 8-14 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and Application Papers	rawn from consideration. /or election requirement.	
9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) and a continuous applicant may not request that any objection to the Replacement drawing sheet(s) including the correct of the oath or declaration is objected to by the left of the second sheet and the second sheet are sheet as a continuous and the second she	ccepted or b) objected to by the ne drawing(s) be held in abeyance. So ection is required if the drawing(s) is o	ee 37 CFR 1.85(a). bjected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreignal All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a list	nts have been received. nts have been received in Applica iority documents have been receive eau (PCT Rule 17.2(a)).	tion No ved in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summar Paper No(s)/Mail I 5) Notice of Informal 6) Other:	Date

Application/Control Number: 10/614,050 Page 2

Art Unit: 2621

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 9/2/2009 has been entered.

Response to Arguments

2. Applicant's arguments with respect to claims 8-14 have been considered but are moot in view of the new ground(s) of rejection.

Specification

3. The specification is objected to as failing to provide proper antecedent basis for the claimed subject matter. See 37 CFR 1.75(d)(1) and MPEP § 608.01(o). Correction of the following is required: the specification does not provide antecedent basis for the term "computer-readable medium" in claims 8-14.

Claim Rejections - 35 USC § 101

4. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 8-12 are rejected under 35 U.S.C. 101 because claims are directed to nonstatutory subject matter.

For claims 8-10, the examiner treats the claimed "computer-readable" medium as a signal, which is nonstatutory subject matter.

Claims11-12 rejected under 35 U.S.C. 101 based on Supreme Court precedent and recent Federal Circuit decisions, a 35 U.S.C § 101 process must (1) be tied to a particular machine or (2) transform underlying subject matter (such as an article or materials) to a different state or thing. In re Bilski et al, 88 USPQ 2d 1385 CAFC (2008); Diamond v. Diehr, 450 U.S. 175, 184 (1981); Parker v. Flook, 437 U.S. 584, 588 n.9 (1978); Gottschalk v. Benson, 409 U.S. 63, 70 (1972); Cochrane v. Deener, 94 U.S. 780,787-88 (1876).

An example of a method claim that would <u>not qualify</u> as a statutory process would be a claim that recited purely mental steps. Thus, to qualify as a § 101 statutory process, the claim should positively recite the particular machine to which it is tied, for example by identifying the apparatus that accomplishes the method steps, or positively recite the subject matter that is being transformed, for example by identifying the material that is being changed to a different state.

Here, applicant's method steps are not tied to a particular machine and do not perform a transformation. Thus, the claims are non-statutory. The examiner treats the claimed computer-readable medium as paper, and claims 11 and 12 can be interpreted as a user writes or draws the claim data structure on a piece paper (recording) or copy the data structure from one piece of paper to another piece of paper (reproduction).

The mere recitation of the machine in the preamble with an absence of a machine in the body of the claim fails to make the claim statutory under 35 USC 101. *Note the Board of Patent Appeals Informative Opinion Ex parte Langemyer et al.*

Application/Control Number: 10/614,050 Page 4

Art Unit: 2621

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 8, 10, 11-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Okada et al (US 6,181,870 B1) and Seo et al (US 2002/0,006,273 A1), hereinafter referenced as Seo and further in view of Official Notice.

For claim 8, Okada teaches teach a computer-readable medium having a data structure for managing video data recorded on the computer-readable medium (e.g. figure 6A shows the data structure of video stream recorded on the DVD, column 16, lines 22-60), comprising:

- a data area storing a plurality of data packets including source packets of at least video data of a stream including a plurality of clip files recorded on the recording medium (e.g. figure 6A, a video stream contains plurality of GOP, wherein each GOP contains plurality of video packets, column 16, lines 44-60);
- a plurality of time control information areas (e.g. Figure 6H, plurality of GOP contain plurality of video packets, where a PTS and a DTS can be assigned once to each GOP, column 23, lines 26-49), representing decoding time interval information (e.g. interval corresponds to the GOP),

Application/Control Number: 10/614,050

Art Unit: 2621

each of said plurality of time control information areas recorded at a fixed time interval in a corresponding one of said plurality of data packets of the stream (e.g. figure 6H, PTS and DTS in one packet header).

Page 5

- a management area storing management information for managing reproduction of the stream, the management information including an information file associated with each clip file providing a map for the associated clip file, each map mapping presentation time information to address information for the associated clip file (e.g. column 80, lines 51-67 and figure 12A, time map table).
- wherein the said fixed packet interval corresponds to at least two transport steam packets or source packets (the interval of a GOP must corresponds to at least tow video packet, figure 6A shows a interval of a GOP contains at least two video "packet" in the interleaving Pack Sequence).

However, Okada fail to teach each of the data packets comprises a transport stream packet having 188 bytes or a source packet having a header and the transport stream packet; the data structure is associated with a blu-ray disc format. Seo teach ach of the data packets comprises a transport stream packet having 188 bytes or a source packet having a header and the transport stream packet (e.g. figure 4 of Seo shows each transport packet has a packet size or 188 bytes). Column 16, lines 21-26 of Okada teach the packet size is 2K bytes, or 2048 bytes in the conventional DVD art, and Seo teach the packet size is 188 bytes. It would have been obvious to one ordinary

Art Unit: 2621

skill in the art at the time the invention was made to replace the 2048 bytes data packet of Okada with the 188 bytes of Seo for the same purpose of video recording and playback. Known work in one field of endeavor may prompt variations of it for use in either the same field or a different one based on design incentives or other market forces if the variations are predictable to one of ordinary skill in the art (KSR, 550 U.S. at , 82 USPQ2d at 1396).

Okada and Seo fail to specify the data structure is associated with a blu-ray disc format. The examiner takes Official Notice for the data structure is associated with a blu-ray disc format since it is well known in the art. It would have been obvious to one ordinary skill in the art at the time the invention was made to associate the data structure disclosed by Okada and Seo with the blu-ray disc format to simplify the data process step and reduce the time for data processing.

Claims 10-14 are rejected for the same reasons as set forth in claim 8 above.

7. Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Okada, Seo and Official Notice as applied to claims 1, 8, 10, 11 and 12 above, and further in view of Yoo et al (US 2002/0,150,392 A1).

See the teaching of Okada, Seo and Official Notice above.

For claim 9, Okada, Seo and Official Notice fail to specify fixed packet interval is 10 packets. Yoo et al teach a fixed packet interval is 10 packets (paragraph [0033]). It would have been obvious for one ordinary skill in the art at the time the invention was made to have use 10 packets as a fixed interval in the system disclosed by Okada, Seo

Application/Control Number: 10/614,050 Page 7

Art Unit: 2621

and Official Notice to simplify the data process step and reduce the time for data processing.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daquan Zhao whose telephone number is (571) 270-1119. The examiner can normally be reached on M-Fri. 7:30 -5, alt Fri. off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tran Thai Q, can be reached on (571)272-7382. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Daquan Zhao/

Examiner, Art Unit 2621

/Thai Tran/ Supervisory Patent Examiner, Art Unit 2621